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Hopper et al.

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(54) **MEMS PRESSURE SENSING DEVICE**

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G01L 9/00 (2006.01)

(52) **U.S. Cl.** **73/718; 73/724; 73/754**

(58) **Field of Classification Search** **73/718,**
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See application file for complete search history.

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(57) **ABSTRACT**

A pressure sensing system formed in a monolithic semicon-
ductor substrate. The pressure sensing system comprises a
pressure sensing device formed on the monolithic semicon-
ductor substrate. The pressure sensing device is adapted to
be disposed in an environment for developing an electrical
pressure signal corresponding to the pressure in the envi-
ronment. The system includes driver circuitry formed in the
monolithic semiconductor substrate. The driver circuitry is
responsive to input electrical signal for generating an output
pressure signal. A conductive interconnect structure formed
in the monolithic semiconductor substrate to electrically
connects the pressure sensing device to the driver circuitry
such that electrical pressure signals developed by the pres-
sure sensing device are provided as input electrical signals
to the driver circuitry.

9 Claims, 2 Drawing Sheets

